

Grade 5 School Garden Math Task

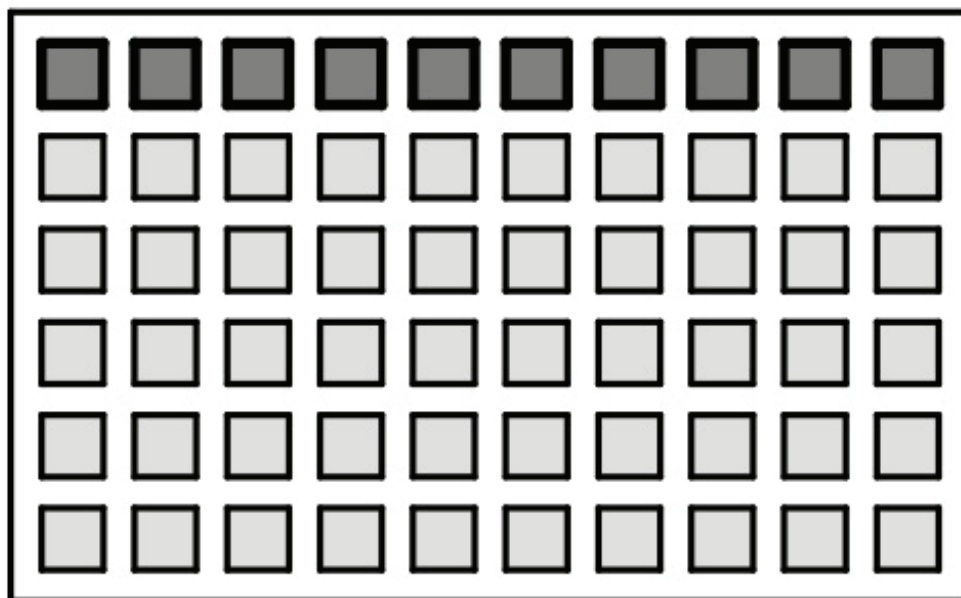
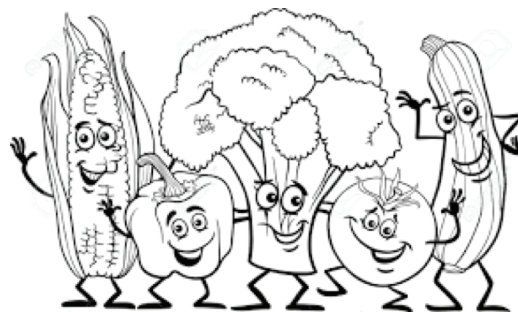
2015-2016 NYC End-of-Year Performance Tasks

Instructions

- Tasks may not be shared with students prior to administration.
- If the above-named NYC Performance Task is being administered for evaluative purposes, the End-of-Year task may be administered by the regular classroom teacher but **may not be scored** by the regular classroom teacher.
- Distribute one task booklet to each student.
- All student work should be completed in the task booklet. All student work in the task booklet should be scored, regardless of whether the student completed or attempted every question.
- Students should have 90 minutes to complete the task, not including the distribution and collection of materials.
- Depending on school scheduling, administration may occur over 1-2 days. Administration conditions (i.e., the amount of time students have to complete the task, etc.) should be consistent across all classrooms in the school administering the above-named NYC Performance Task.
- Students should receive all accommodations normally provided for a class or state test.
- For complete administration information, see the MOSL Assessment Administration Handbook.

School Garden

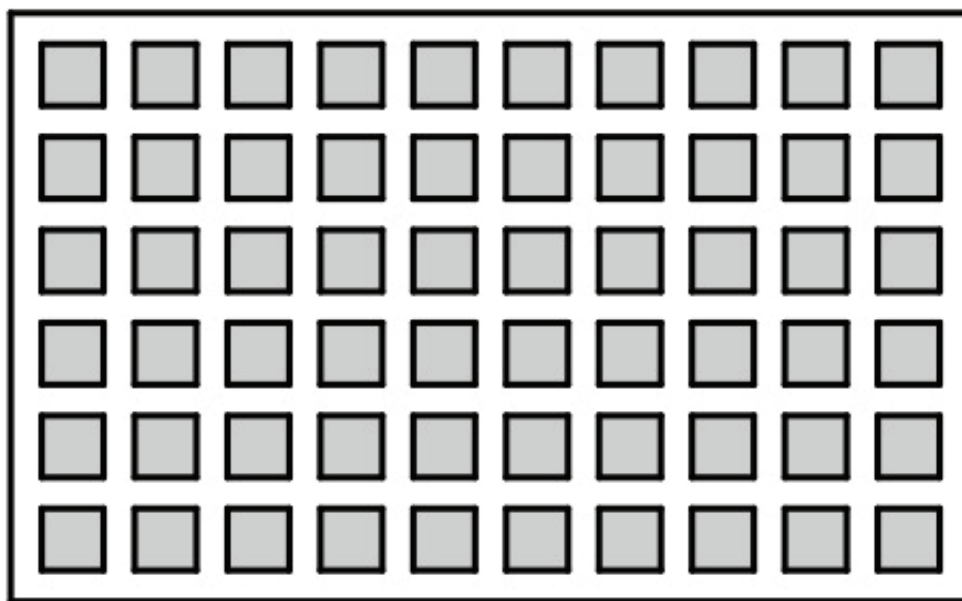
ABC Elementary School has grades Kindergarten through 5. They are starting a school garden that is made up of rows of equal-sized plots with room to walk in between. Each grade gets a fraction of the garden based on the number of students in that grade. The more students a grade has, the more of the garden the grade can use for planting. The garden is shown below:



- ① Grade 1 will plant in the top row of the school garden.

What fraction of the whole school garden does Grade 1 use? _____

Name: _____ Date: _____

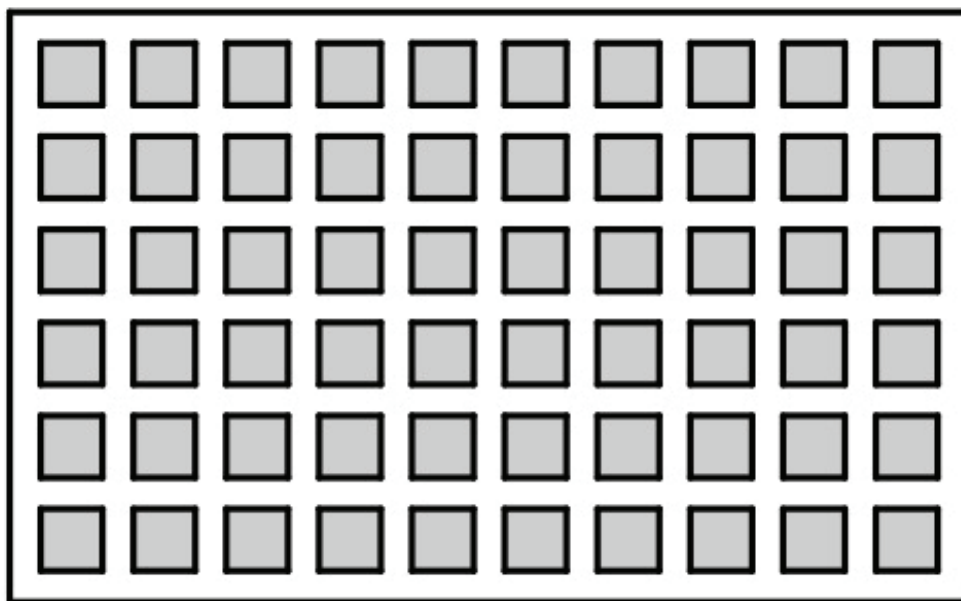


- ② Grade 2 will plant $\frac{1}{4}$ of the whole school garden. So far they have planted $\frac{1}{6}$ of the whole school garden.

What fraction of the whole school garden still needs to be planted by Grade 2?

Show your work.

Name: _____ Date: _____

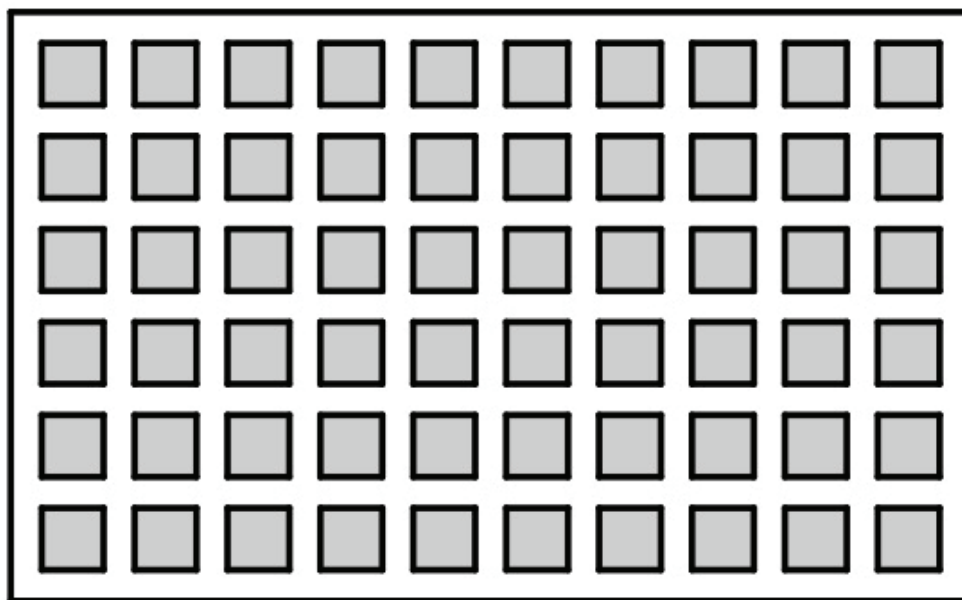


- 3 Later in the school year, Grades 2 and 3 will combine their sections to grow watermelon for the Spring Festival. Grade 2 will plant $\frac{1}{4}$ of the whole school garden and Grade 3 will plant $\frac{1}{10}$ of the whole school garden.

What fraction of the whole school garden will be used in the spring to grow watermelon?

Show your work.

Name: _____ Date: _____

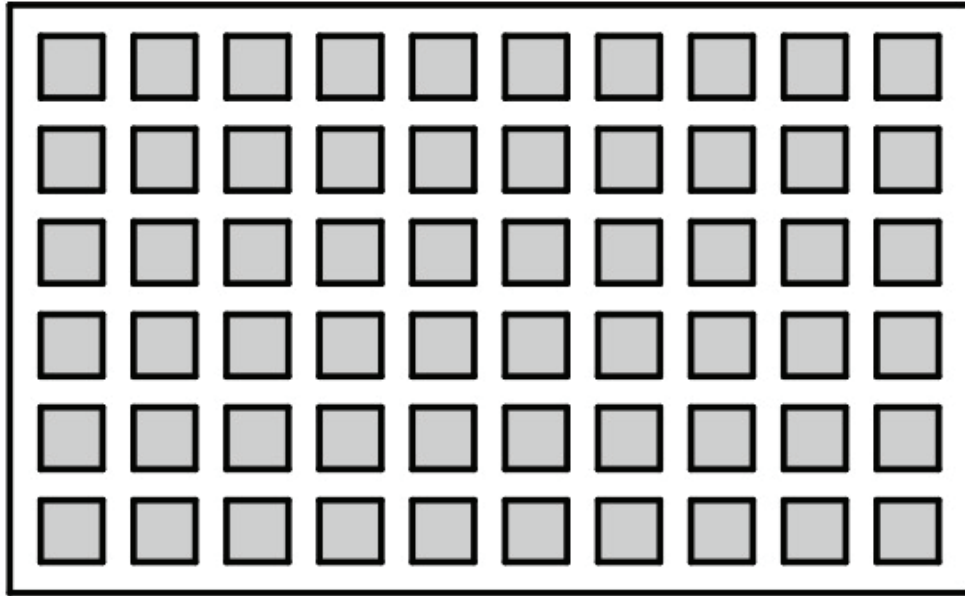


- ④ Grade 4 will plant $\frac{3}{20}$ of the whole school garden. They will use $\frac{1}{3}$ of their plot to plant carrots.

What fraction of the whole school garden will be planted with carrots? _____

Show your work.

Name: _____ Date: _____

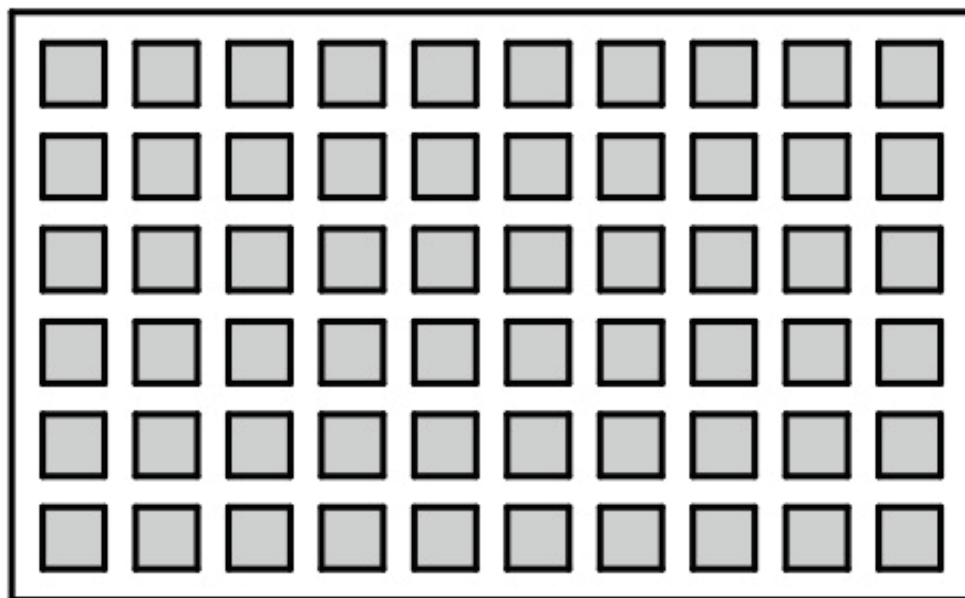


- 5 This year, Grades 3, 4, and 5 will plant $\frac{9}{20}$ of the school garden altogether. Next year they will gain $\frac{1}{10}$ more of the school garden because they will have more students, while the lower grades will have fewer students.

What fraction of the whole school garden will be used by Grades 3, 4, and 5 next year?

Use estimation to explain why your answer is reasonable.

Name: _____ Date: _____



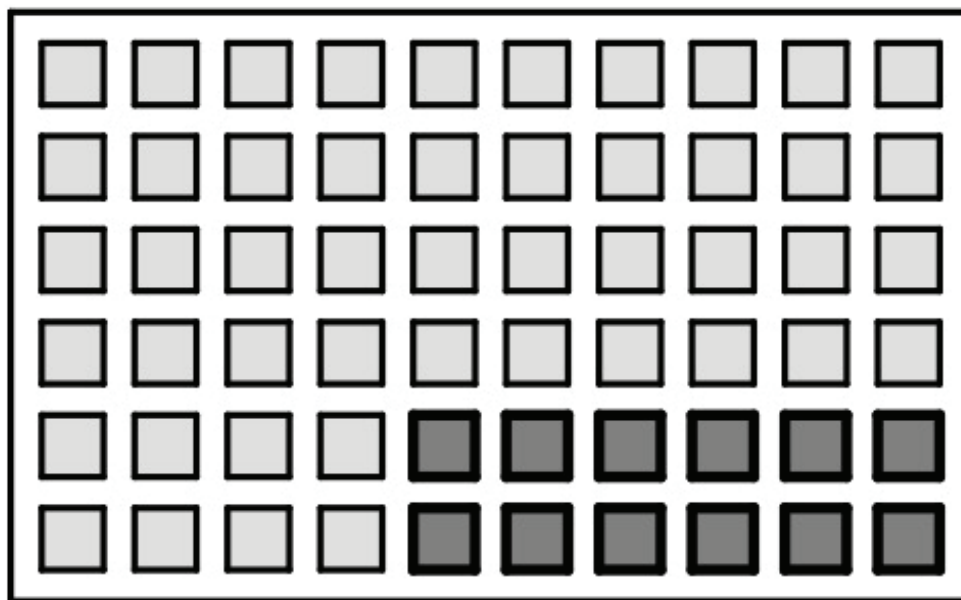
- ⑥ Kindergarten and Grade 1 have 16 plots altogether. There are 3 parent helpers that equally share responsibility for the Kindergarten and Grade 1 section.

How many plots is each parent responsible for if they share the plots equally?

_____ plots

Show your work.

Name: _____ Date: _____

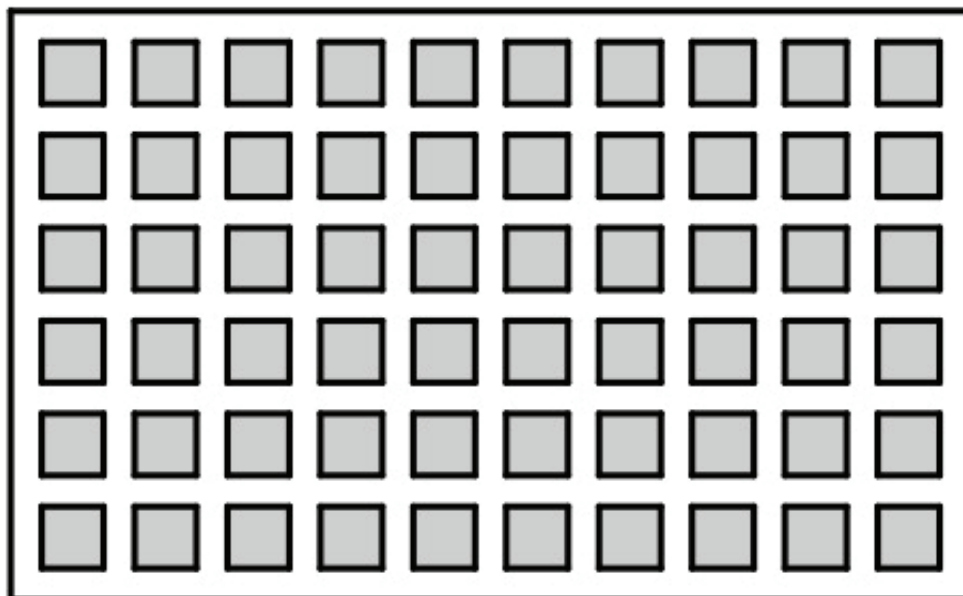


- 7 Grade 5 will use 12 plots of the school garden. Each Grade 5 student will plant $\frac{1}{6}$ of a plot.

How many students are in Grade 5? _____ students

Show your work.

Name: _____ Date: _____



- 8 After all the grades planted their plots, they realized that $\frac{1}{30}$ of the garden didn't have anyone to plant in it. They decided to donate the $\frac{1}{30}$ of the whole garden to the two school secretaries. The two school secretaries will share this part equally to grow flowers for the office.

What fraction of the whole school garden does each secretary use? _____

Show your work.